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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/682,223	10/09/2003	Mark A. Schubert	SP-1665.1 US 8111	
20875 MICHAEL C. I	7590 05/24/200 POPHAL	EXAMINER		
EVEREADY BATTERY COMPANY INC			CHU, HELEN OK	
	25225 DETROIT ROAD P O BOX 450777 WESTLAKE, OH 44145			PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
,	10/682,223	SCHUBERT ET AL.				
Office Action Summary	Examiner	Art Unit .				
	Helen O. Chu	1745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 M						
<u>'</u>	·					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 1-25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	n from consideration.					
Application Papers		·				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the contract of the contract	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119		•				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	ate				
Paper No(s)/Mail Date	6) Other:					

DETAILED ACTION

1. Applicants' Arguments/Remarks was received on March 12, 2007.

2. The text of those sections of Title 35, U.S.C. code not included in this action can be found in the prior Office Action.

37 CFR 1.132

3. The affidavit under 37 CFR 1.132 filed March 12, 2007 is insufficient to overcome the rejection of claims 1-12, 18-21 based upon *specific references applied under 35 U.S.C. 103* as set forth in the last Office action because: *showing is not commensurate in scope with the claims*. First, the Applicants failed to show or provide evidence on the instantly claimed invention compared to the invention disclosed in Shubert et al. in view of Chen et al. as set forth under 35 U.S.C. 103(a). The Applicants failed to provide evidence that the instantly claim invention is not the same gasket as that in Chen et al. reference.

Second, the Applicants principal arguments are:

a) One of ordinary skill in the art would not combine the gasket with 20% E-glass as a sealant as taught by Chen et al. into the electrochemical battery as taught by Shubert et al. because the invention taught by Shubert et al. requires a gasket material to have 40-150% elongation breakage and the Chen et al. reference teaches a gasket of below 10% elongation.

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b) the Chen patent focus on the shape of the gasket as being the significant aspect of sealing capabilities and cannot be applicable to the exigencies of an electrochemical cell.

In response to Applicants' arguments, please consider the following:

- a) The Applicant's admitted that the Chen et al. reference discloses a gasket with fewer than 10% elongation. Please refer to Page 5, Paragraph 64 of the Shubert et al. reference. The statement "if the elongation to break is too low (under 20%) the seal member will tend to rupture prematurely." Though the Shubert et al. teaches negatively against using a gasket that has under a 10% elongation, the Shubert et al. reference had reinforced the invention of Chen et al. and Shubert et al. are combinable and has been combined before to obtain not so favorable results.
- b) In response to Applicant's arguments that there is no suggestion to combine the references, the Examiner recognizes that references cannot be arbitrarily combined and that there must be some reason why one skilled in the art would be motivated to make the proposed combination of primary and secondary references. *In re Nomiya, 184 USPQ 607 (CCPA 1975)*. However, there is no requirement that a motivation to make the modification be expressly articulated. The test fro combining references is what the combination of disclosures taken as a whole would suggest to one of ordinary skill in the art. *In re Laughlin, 170 USPQ 209 (CCPA 1971)*. Reference are evaluated by what they suggest to one versed in the art rather than by their specific disclosures. *In re Bozek, 163 USPQ*

545 (CCPA) 1969. In this case, the Examiner provided motivation to combine the gasket as taught by Chen et al. to the electrochemical cells that require gaskets as taught by Shubert et al. Whether the gasket as taught by Chen et al. is for an engine is irrelevant. Both gaskets in the Chen et al. reference and the electrochemical cell as taught by Shubert requires the gaskets to have sealing capabilities.

Claim Rejections - 35 USC § 103

- 4. The rejections under 35 U.S.C 103 (a), on claims 1-12 and 18-21, Schubert et al. in view of Chen et al., as applied to claim 12, are maintained. The rejections are is repeated below for convenience.
- 5. The rejections under 35 U.S.C 103 (a), on claims 13-17 and 23, Schubert et al. in view of Chen et al. and further in view of Bakos et al. are maintained. The rejections are is repeated below for convenience.
- 6. The rejections under 35 U.S.C 103 (a), on claims 24 and 25, Schubert et al. in view of Chen et al. and further in view of Yasuda et al. are maintained. The rejections are repeated below for convenience. Schubert et al. in view of Chen et al., as applied
- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

(US Publication 2003/0118902) in view of Chen et al. (US Patent 6,236,205).

In regard to claims 1-5, 18-21, the Schubert et al. reference discloses an electrochemical cell with an electrode assembly (Paragraph 37) metal containers (Paragraph 2), metal covers (Paragraph 21). The sealant is made of thermoplastic material comprising of polyolefin matrix (Applicants' thermoplastic resin) which seals an aperture in at least one of the container and the first cover and forming at least a part of the pressure relief vent for releasing pressure (Paragraph 44). The Schubert et al. reference does not disclose a thermo-stabilizing filler made of E-glass, however, the Chen et al. reference discloses a gasket made of 20% E-glass in a suitable thermoplastic resin matrix made of polyphenylene sulfide (Column 6, Lines 36-40) for effective reinforcement (Column 5 Line 5). Therefore, it would have been obvious to one of ordinary skill at the time the invention was made to incorporate the gasket with 20% E-glass as taught by Chen et al. into the sealant of the electrochemical battery as taught by Schubert et al. to have a strong sealant that would reduce electrolyte leakage of the battery.

In regards to claim 6, the Schubert et al. reference discloses a second seal thermoplastic seal member providing a seal between the container and the metal cover (Figure 5, Component 32).

In regards to claim 7, the Schubert et al. reference discloses a hollow cylindrical shape which is disposed within the aperture in the first metal cover (Figure 5, Component 32)

In regard to claim 8 and 9, the Schubert et al. reference illustrates pressure relief vent (Figure 5,Component 46 and 48) within the first thermoplastic seal member (Component 32) and the first cover (Component 34). The first thermoplastic seal member and the sphere plug cooperate to form a compression seal for the aperture.

In regard to claims 12, the Shubert et al. reference discloses a non-aqueous electrolyte (Paragraph 42)

In regard to claims 10 and 11, according to the Shubert et al. reference, the vent bushing may be a seal member (Paragraph 42) since the vent ball and vent bushing is part of the ventilation device as taught by Shubert et al. it would have been obvious to one of ordinary skill at the time the invention was made to produces the vent ball with the same material as that of the vent bushing, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin, 125 USPQ 416*.

9. Claims 13-17, 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schubert et al. in view of Chen et al., as applied to claim 12, and further in view of Bakos et al. (US Patent 4,804,595).

The Schubert et al. reference in view of Chen et al. discloses an electrochemical battery as applied to claim 12 and further incorporated herein. The Shubert et al. and Chen et al. reference also discloses a lithium battery (Paragraph 32) but does not disclose some of the specific elements in a lithium battery. However, the Bakos et al. reference discloses a lithium battery with a lithium anode, a manganese cathode and

tetrahydrofuran as an organic electrolyte (boiling point of 62 °C) which generally conferred to superior electrical performance to lithium battery when present as the ether component of a lithium battery electrolyte. Therefore, it would have been obvious to one of ordinary skill at the time the invention was made to use the lithium battery component as taught by Bakos et al. as the lithium cell as disclose by Schubert to enhance performance in a battery or an electrochemical cell.

10. Claims 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schubert et al. in view of Chen et al., as applied to claim 18, and further in view of Yasuda et al. (US Patent 4,501,805).

The Schubert et al. reference in view of Chen et al. discloses an electrochemical battery as applied to claim 18 and further incorporated herein. The Shubert et al. and Chen et al. reference also discloses a lithium battery (Paragraph 32) with gaskets made of thermoplastic resin and 20% thermo-stabilizing filler but does not disclose the thermoplastic resin material is ethylene-tetrafluoroethylene. However, the Yasuda et al. reference discloses a gasket made of ethylene-tetrafluoroethylene for insulation (Column 1, Lines 39-51). Therefore, it would have been obvious to one of ordinary skill in the art at the time in the invention was made to incorporate ethylene-tetrafluoroethylene as disclosed by Yasuda et al. into the gasket as disclosed by Shubert et al. and Chen et al. to prevent electrolyte creepage.

It is noted that claims 22 are product-by-process claims. "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not

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depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F. 2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). Since product is similar to that of the Applicant's, Applicant's process is not given patentable weight in this claim.

Response to Arguments

11. Applicant's arguments filed March 12, 2007 have been fully considered but they are not persuasive. Please refer to the arguments addressed above under 37 CFR 1.132.

Conclusion

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen O. Chu whose telephone number is (571) 272-5162. The examiner can normally be reached on Monday-Friday 8am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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